

### Listing commands

**ls**: List all the files and directories in current directory.

**ls -a**: List all the hidden files and directories.

**ls -l**: List all the file and directories in longlist format with extra information.

**ls \*.sh**: List all the files in current directory with .sh format.

**ls -li**: List all the files and directories with index number inodes.

**ls -d \*/**: List only directories.

### Basic Linux

**cp file1 file2::** to copy the content of file 1 to file2.

**cp -R Dir1 Dir2:** to copy dir1 recursively to dir2.

**mv file1 file2:** rename/move file 1 to file 2

### ssh commands

**ssh -p port user@host** : connect to host on port as user

**ssh -i <private key of server > user@ip** : connect to server

**ssh-keygen** : to generate pub key /private key

**scp -i filename <private key of server> user@ip:/home/ubuntu/dir** : to tranfer file from local to server

### system info

**date**: to display the date

**time**: to display the time

**whoami**: display the current user

**W**: who is online

**uptime**:shows current uptime

**df**: display the amount of free space in file system.

**du**:display the amount of disk used in file system.

**ps**: display current active process

**top**: display all running process

**kill pid**:kill the process

### Directory Commands

**pwd**: present working directory

**cd path\_to\_directory**: change path to specific directory.

**cd**: change path to home directory.

**cd ..**: change directory to one step back.

**cd -**: go to last working directory.

**cd ../..**: change directory to two step back.

**mkdir newfolder**: make directory/folder with name newfolder

**mkdir newfolder1 newfolder2**: make multiple folders/directories with name newfolder1 newfolder2 at once.

**mkdir .hiddenfolder**: make a hidden folder/directoriy with name hiddenfolder.

**mkdir -p A/B/C**: make nested directory

**mkdir /home/user/exampleDirectory**: make directory at a specific location.

**mkdir day{1..5}**: to create multiple files from day 1 till day5.

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### searching commands

**grep [options] pattern [file\_name]**: search for a pattern in file

**grep -i user file1.txt**: search for all the line in file file1.txt which contain user, User (-i is insensitive)

**grep -r pattern dir**: search recursively for pattern in dir

**command | grep pattern**: search for pattern in the output of command

### Access Control List (ACL)

**getfacl file\_name**: to view the access control of file.

**setfacl default:user:permission file\_name**: to modify the access control to file.

**setfacl -m u:root:rxw File1.txt**: will provide the read, write, execute access control to root user.

### Basic Linux Commands

**cat filename**: To view what's written in a file.

**chmod 777 foldername**: To change the access permission of file.

**history**: to check which you have run till now.

**rmdir foldername**: to remove a directory.

**rm filename**: to remove a file.

**vi filename**: to create a file and view content.

**head -3 filename**: to show only top 3 lines of file.

**tail -3 filename**: to show only bottom 3lines of file.

**diff file1 file2**: to show the difference between two files.

**chown owner\_name file\_name**: to change the owner of file.

**chgrp group\_name file\_name**: to change the group of the file.

### Network

**ping hostname**: ping the host and output results

**hostname -i**: Displays local IP address

**wget file\_name**: download file

### File Permission

**w**: write - 2

**r**:read - 4

**x**:execute - 1

**0**: no permission

**1**: execute

**2**: write

**4**:read

e.g: **chmod 777 file1.txt** will have read, write and executable permission.



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